

Hakan Alpay

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iOS, Android, React, C, Objective-C, Java, Kotlin, JavaScript, Python, Next.js, Angular

Experience

Facebook: iOS Engineer

Early 2022 - Current

- Created the new **Facebook iOS share sheet** used **500+ million times per day** by **2+ billion people** to share content from Facebook to their story, timeline, Messenger chat, or other off-platform destinations.
- Developed the share sheet with **Objective-C++**, **Component Kit**, **Graph QL** (for contact fetching), **Xcode**,
- Created numerous experiments that tested different variants on **2+ million people per test**.
- Did the **data analysis** of the experiments by **measuring the impact** on top line metrics for key variants and **investigating the cause** of any regressions. Presented to **leads** weekly.
- Calculated receiver-side impact of share sheet by calculating the click back rate with **Python** and **Daiquery**.
- Wrote **impression logging** to **calculate performance** of the share sheet and identify opportunities for **optimization**.
- Was reorged into this team, so I learned **iOS**, **Objective-C++**, **Xcode**, **ComponentKit**, and **Remodel** **completely from scratch** while on the job and pushing code.
- Developed **End to End Encrypted** Media Storage Page for **Messenger in Facebook** (Lightspeed) with **C**, **Objective-C++**, and **Remodel**.
- Worked across **multiple teams** on a **high priority org-wide effort** in a **new codebase**.
- **Aligned** with product designers, content designers, backend engineers, and Android engineers to ensure the **correct product experience** gets created, dogfooded, and tested.

Facebook: Full Stack Web Engineer

September 2021 - Early 2022

- Lead a team to create Group Fundraisers on Facebook Web and Mobile (iOS and Android) using **React JS** and **Native Templates (PHP)**, used by 300 million people to create fundraisers for group events.
- Managed all mutations and state transitions with **Redux** syncing with the backend with **GraphQL** fragments and **Relay**.
- Managed extensive type systems with **Flow**.
- Used **CSS-in-JS** to create the UI for the web version and kept it in sync with the designs for the mobile version (Blocs/NT).
- Developed the backend APIs needed with **PHP** to create group fundraiser data objects and interpret them on the frontend.
- Created the **data model** in **Facebook's graph database** (Ent + Tao) for the fundraiser and it's associations.

Facebook: Front End Engineer Intern

Summer 2020

- Created **Full-stack** project with **React JS** to improve civic integrity across Facebook's products.
- Used **Graph QL** with **Relay** to query and send data to the backend with a specified Schema.
- Created controllers with **Hack (PHP)** to handle requests from the clients and send preliminary data.
- Worked with **extremely tight deadlines** as I was developing a tool to **combat hate speech and misinformation** during the 2020 election cycle in the United States.

Symantec: Cloud Connect Intern

Summer 2019

- Optimized **AngularJS** and **Lodash** by directly modifying source to reduce JavaScript **bundle size** by 50kb.
- Rewrote high traffic AngularJS code in vanilla **JavaScript** resulting in **85% decrease** in code downloaded.
- Features affect **50 million** customers conducting **140 million** requests per quarter.
- Worked with **TDD** and designed tests in JavaScript.

Zenith Insurance: App Developer Intern

Summer 2018

- Developed features for Zenith Connect, an **iOS** and **Android** app for injured claimants to coordinate with their examiner.
- Used **Kotlin** (Android) and **Swift** (iOS) to stream documents via **REST requests** and to be displayed as PDFs.
- Used **SQL** requests to manipulate events.
- Features developed affected **1500+ people**.

Node.js: Open Source Contributor

December 2017

- Used **C++** to percent-encode additional characters within **Node.js URL parser** with new lookup table.
- This aligns URL parser with new **WHATWG** (HTML Maintaining Group) encoding standards.
- Created local build to pass tests and monitored tests on **Jenkins Continuous Integration**.
- Feature included in Node.js version 9.4 release, affecting over **3.5 million users**.

Education

UCLA: BS in Computer Science

August 2017 – June 2021; GPA: 3.5

Networking, Data Structures, Algorithms, Linux, Object Oriented Programming, Optimization, Multi-threading, Operating Systems, Computer Architecture, C Programming